

**Size of carrier excluding incremental volume:**

% share of total lines

Zone 1 (closer to wire center)

Zone 2 (farther from wire center)

Residence	Business
0%	100%
0%	100%

**AMFLIDMAR**

**CLLI Code for Wire Center**

**Total Cost per Line                      30.24**

*Local Exchange*

Switching & Trunking                      0.77

Billing and Collection                      0.30

**Total Local Costs                      1.07**

[View Detailed Cost  
Results](#)

*Joint*

End Office                      2.87

Loop                      21.03

Termination                      2.26

Billing and Collection                      0.26

**Total Joint Costs                      26.42**

Subtotal                      27.49

**Common Costs                      2.75**

Control

TELRIC  
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## Total Element Long Run Incremental Cost

### Study Type:

Analyze the incremental cost of adding

to a network containing all other elements necessary to provide bundled services, considering

### Common Cost Allocation

Select the allowance for common costs (as a percent of direct costs)

9% ▲  
10% ■  
11% ▼

### Size of carrier

% share of total lines

Zone 1 (closer to wire center)

Zone 2 (farther from wire center)

Residence	Business
100%	100%
100%	100%

**AMFLIDMAR**  
**CLLI Code for Wire Center**

<b>Total Cost per line</b>	<b>35.73</b>
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Loop	30.12
Termination w/out NID	2.37

Subtotal	32.48
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<b>Common Costs</b>	<b>3.25</b>
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## Marginal Cost of a Service

### Study Type:

On a network serving

locations, estimate the marginal cost of

stated on a per line basis, considering

### Joint Cost Allocation

Select the percentage allocation factor for joint costs.

80%   
90%   
100%

### Common Cost Allocation

Select the allowance for common costs (as a percent of direct/joint costs)

10%   
11%   
12%

### Size of carrier:

% share of total lines (specifies volume of output)

Zone 1 (closer to wire center)

Zone 2 (farther from wire center)

Residence	Business
100%	100%
100%	100%

### Smoothing

Estimate marginal cost as the slope of the total cost curve within a range of plus or minus of the previously specified volume of output.

7.5%	▲
10.0%	■
12.5%	▼

### AMFLIDMAR CLLI Code for Wire Center

**Total Cost per Line**      **20.22**

#### *Local Exchange*

Switching & Trunking	1.17
Billing and Collection	0.30
<b>Total Local Costs</b>	<b>1.47</b>

View Graph of Total  
Cost Curve

#### *Joint*

End Office	2.66
Loop	12.18
Termination	1.87
Billing and Collection	0.20
<b>Total Joint Costs</b>	<b>16.91</b>

Subtotal	18.38
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<b>Common Costs</b>	<b>1.84</b>
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## Marginal Cost of an Element

### Study Type:

Analyze the marginal cost of adding

loops including CPT, except NID

to a network containing all other elements necessary to provide bundled services, considering

direct and common costs.

### Common Cost Allocation

Select the allowance for common costs (as a percent of direct/joint costs)

10% ▲  
11% ■  
12% ▼

### Size of carrier:

% share of total lines (specifies volume of output)

Zone 1 (closer to wire center)

Zone 2 (farther from wire center)

Residence Business

100%	100%
100%	100%

### Smoothing

Estimate marginal cost as the slope of the total cost curve within a range of plus or minus of the previously specified volume of output.

2.5% ▲  
5.0% ■  
7.5% ▼

**AMFLIDMAR**  
**CLLI Code for Wire Center**

**Total cost per line**                      **15.46**

Loop	12.18
Termination w/out NID	
Drop Wire/Bdng. Cable	1.87
Terminal	0.49

Subtotal                                      14.06

**Common Costs**                              **1.41**

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## Financial Assumptions

### Annual Cost Factors

Federal Income Tax Rate	35.00%
State Income Tax Rate	8.42%
Debt % of Total Capitalization	
Equity % of Total Capitalization	60.00%
Cost of Debt	
Cost of Equity	12.00%

	Average Life	Plant Specific Charge
Remote Electronics	5.0	7.50%
Poles	10.0	5.00%
Aerial Copper Cable	25.0	0.00%
Underground Copper Cable	25.0	0.50%
Buried Copper Cable	25.0	0.50%
Aerial Fiber Cable	25.0	0.00%
Underground Fiber Cable	25.0	0.50%
Buried Fiber Cable	25.0	0.50%
Conduit Systems	50.0	2.50%
Switching/End Office	10.0	0.50%
Trunking	10.0	0.50%
Termination	10.0	0.50%

### Loaded Labor Cost per Hour

Engineer
Tech II
Tech I

### Fiber Electronics

Investment per 64 bit channel

DS1

DS3

Central Office

Remote

\$ 1,000

\$ 1,000

Local

Switched Access

Other Trunking Investment

\$ 1,150

\$ 1,150

### Billing and Collecting

Joint Cost per month

Bill Handling, Envelope, Minimum Postage

Residence

Business

\$ 0.32

\$ 0.32

Direct Cost per month

Centralized Mail Remittance

Customer Service

Bill Inquiry

Data Processing

\$ 0.05

\$ 0.05

\$ 0.05

\$ 0.04

\$ 0.05

\$ 0.05

\$ 0.09

\$ 0.09

### Outside Plant Structures

Material Cost

Aerial (investment per Pole)

Underground (investment per mile)

\$ 200

\$15,000

### Switching Investment

	EF & I Investment	Building & Other Misc. Investment
Minimum Size Configuration:	\$1,200.00	\$1,200.00
Discount	\$0.00%	

### Non Traffic Sensitive Switching Investment

Switch Size (Lines)		EF & I Investment	Building & Other Misc. Investment
From	To		
1	399		
400	999		\$ 20
1,000	1,999		\$ 20
2,000	2,999		\$ 20
3,000	4,999		\$ 20
5,000	9,999		\$ 20
10,000	19,999		\$ 20
20,000	29,999		\$ 20
30,000	or more	\$2,000.00	\$ 20

### Traffic Sensitive Switching Investment

Call Setup (per hundred calls/day)	\$1,200.00
Minutes of Use (per hundred minutes/day)	\$1,200.00

### Other Switching Features

Per Line per Month	\$1,200.00
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## Feeder and Distribution Investment

### Copper Cable

Material Cost per Sheath Foot

Pairs per Sheath	Aerial	Underground	Buried
0	\$ -	\$ -	\$ -
6			
12			
25			
50			
100			
200			
300			
400			
600			
900			
1,200			
1,500			
1,800			
2,100			
2,400			
2,700			
3,000			
3,600			
4,200	\$ 26.50	\$ 26.50	\$ 26.50

# **Fiber Cable**

Material Cost per Sheath Foot

Pairs per Sheath	Aerial	Underground	Buried
0	\$ -	\$ -	\$ -
4			
6			
8			
10			
12			
18			
24			
30			
36			
48			
60			
72			
84			
96			
108			
120			
132			
144			
156			
168			
180			

## **Other Investment**

	Per Loop	Per Wire Center
Building and Main Distributing Frame		
Cross Connects, and other miscellaneous materials.	\$10,000	\$25,000

## Customer Premises Termination

### Drop Wire/Building Cable

Pairs per Sheath	Material Cost per Sheath Foot
0	\$ -
3	\$ 0.30
6	\$ 0.59
12	\$ 1.18
25	\$ 2.36
50	\$ 4.72
100	\$ 9.44

### Remote Terminal

Customer Size (Lines)		EF & I Investment
From	To	
1	2	\$ 1.18
3	6	\$ 2.36
7	25	\$ 4.72
26	50	\$ 9.44
51	100	\$ 18.88

### Network Interface Device

Customer Size (Lines)		EF & I Investment
From	To	
1	1	\$ 1.18
2	2	\$ 2.36
3	3	\$ 3.54
4	25	\$ 4.72
26	50	\$ 9.44
51	100	\$ 18.88

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## Technical

### Utilization Factors

Customer Premises Facilities  
Copper Cable  
Fiber Cable  
Fiber Electronics  
Switching

Zone 1


Zone 2


### Sharing Factors

Aerial (Poles)  
Underground (Conduit)  
Buried (Trenches)

Zone 1


Zone 2


### Calling Volume

Input the number of calls per month, and the average duration.

Local

Monthly  
Calls

Minutes  
Per Call

Per Residence Line  
Per Business Single Line  
Per Business Line (Multiline)



Switched Access/Toll

Per Residence Line  
Per Business Single Line  
Per Business Line (Multiline)



### Loop Network Technology

- ☒ All copper
- ☐ All fiber
- ☐ Select copper or fiber based upon following criteria:

Minimum Fiber Loop length  Feet

Minimum Loops per Fiber segment

### Customer Dispersion Factors

Percentage of total loops distributed in Zone 1

Extent to which business loops are more heavily concentrated than residential loops in Zone 1

### Residential Line Ratios

Percent of households with phone service

Average number of single-line residence loops as percent of total residence loops.

Residence loops per household

Residence loops per household with phone service

### Business Line Ratios

Average number of single-line business loops as percent of total business loops.

41.83%

Distribution of Other Business Lines

From	To
2	2
3	5
6	10
11	22
23	45
46	90
>	90
total	

5.00%
5.00%
5.00%
5.00%
5.00%
5.00%
20.00%
100.00%

### Miscellaneous Switching Characteristics

Tandem Switching Ratio

Local
5%
8,000
25%

Switched  
Access

5.00%
8,000

Monthly MOU/Interoffice Trunk

Interoffice/Intraoffice Ratio

### Fiber Design Characteristics

Wire Center

Electronics

DS1 ▼

Remote

Electronics

DS1 ▼

Fiber Safety Reserve: 20%

minimum of 2 extra pairs per segment

### Splicing

Minutes Per Segment

Minutes Per Pair

Minutes Per Pair/Kilofoot

Copper

2.0
1.5
1.7

Fiber

2.0
1.5
1.7

### Placement Efficiency/Difficulty Factor

To reflect carrier specific or local conditions, the time required for the placement of poles, conduit and trenches can be stated as a percentage of the average time requirement input below.

Poles	Conduit	Trenches
100.0%	100.0%	100.0%

### Structures

	Spacing Feet	Engineering Hours	Labor Hours
Aerial (per Pole)	132	2	1
Underground (per Mile)		25	10
Buried (per Mile)		10	88

Aerial percent of structures: 10.0%

Underground percent of structures:  
As a function of loop density: 0.00000%  
As a function of other factors: 1.0%

### Cable Sheaths

Extent to which second and subsequent cable sheaths on the same segment cost more (less) than a single sheath.

	Aerial	Underground	Buried
Material	0.0%	0.0%	0.0%
Engineering	10.0%	0.0%	0.0%
Placing	70.0%	0.0%	70.0%

## Cable Design and Engineering

### Copper

Pairs per Sheath	Hours per kilofoot		
	Aerial	Underground	Buried
0	0.0	0.0	0.0
6			
12			
25			
50			
100			
200			
300			
400			
600			
900			
1,200			
1,500			
1,800			
2,100			
2,400			
2,700			
3,000			
3,600			
4,200			

**Fiber**

Pairs per Sheath	Hours per kilofoot		
	Aerial	Underground	Buried
0	0.0	0.0	0.0
4			
6			
8			
10			
12			
18			
24			
30			
36			
48			
60			
72			
84			
96			
108			
120			
132			
144			
156			
168			
180			

# **Cable Placement**

## **Copper**

Pairs per Sheath	Hours per kilofoot		
	Aerial	Underground	Buried
0	0.0	0.0	0.0
6			
12			
25			
50			
100			
200			
300			
400			
600			
900			
1,200			
1,500			
1,800			
2,100			
2,400			
2,700			
3,000			
3,600			
4,200			

**Fiber**

Pairs per Sheath	Hours per kilofoot		
	Aerial	Underground	Buried
0	0.0	0.0	0.0
4			
6			
8			
10			
12			
18			
24			
30			
36			
48			
60			
72			
84			
96			
108			
120			
132			
144			
156			
168			
180			

**Customer Premises Termination**

**Drop Wire/Building Cable**

	Business	Residence
Average Length	100	130
Installation Minutes per Pair	200	180
Installation Minutes per Foot	2.0	2.0

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